

INTERNATIONAL SEARCH REPORT

International Application No

PCT/DK 03/00832

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12C7/04 C12C7/047 C12C7/053 C12C5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA, BIOSIS, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	WO 02 074895 A (FELBY CLAUS ; PEDERSEN SVEN (DK); NOVOZYMES AS (DK); OLSEN HANS SEJ) 26 September 2002 (2002-09-26) page 3, line 31,32 page 4, line 20 -page 6, line 3 page 7, line 23-27; claims 15,16,34-36	1-7, 9-12,17, 19 8
X	GB 1 321 009 A (FORSCH DIE GAERUNGSINDUSTRIE E) 20 June 1973 (1973-06-20) page 2, line 99-107; claim 2 page 3, line 47-110	1,2,4, 9-19
X	US 5 273 762 A (KUHANEN JUKKA ET AL) 28 December 1993 (1993-12-28) examples 1,3,4	1-4, 9-12,16, 17,19

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

9 February 2004

Date of mailing of the international search report

20/02/2004

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PCT/DK 03/00832

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 022 174 A (DEVITT ANDREW B ET AL) 20 February 1962 (1962-02-20)	1,2,4, 9-12,14, 16-19
A	the whole document	3,6-8, 13,15
A	US 4 073 947 A (WITT JR PAUL R) 14 February 1978 (1978-02-14) column 3, line 4 -column 4, line 35	1-19
A	US 4 092 434 A (YOSHIZUMI HAJIME ET AL) 30 May 1978 (1978-05-30) examples 7-9	1-19
A	DE 42 44 596 C (METALLGESELLSCHAFT AG) 10 March 1994 (1994-03-10) column 1, paragraph 2; claim 1	1-19
A	US 2 343 706 A (REICH GUSTAVE T) 7 March 1944 (1944-03-07) page 2, column 2, paragraph 6 -page 3, column 2, paragraph 4	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DK 03/00832

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02074895	A	26-09-2002	WO 02074895 A2 EP 1373539 A2	26-09-2002 02-01-2004
GB 1321009	A	20-06-1973	NONE	
US 5273762	A	28-12-1993	FI 884425 A FI 81606 B CA 1336271 C SE 503286 C2 SE 8903060 A	28-03-1990 11-07-1995 13-05-1996 28-03-1990
US 3022174	A	20-02-1962	NONE	
US 4073947	A	14-02-1978	AR 211537 A1 AU 503026 B2 AU 1468976 A BE 842510 A1 CA 1079660 A1 CS 209851 B2 DD 127051 A5 DE 2624808 A1 DK 247176 A ,B, ES 448611 A1 FI 761597 A ,B, FR 2313447 A1 GB 1547832 A IT 1060298 B JP 1116269 C JP 51148096 A JP 57009788 B MX 3865 E NL 7606058 A NO 761918 A ,B, PH 19761 A SE 432607 B SE 7606361 A SU 805953 A3 ZA 7602368 A	30-01-1978 23-08-1979 15-12-1977 01-10-1976 17-06-1980 31-12-1981 31-08-1977 16-12-1976 07-12-1976 01-07-1977 07-12-1976 31-12-1976 27-06-1979 10-07-1982 15-10-1982 18-12-1976 23-02-1982 26-08-1981 08-12-1976 07-12-1976 27-06-1986 09-04-1984 07-12-1976 15-02-1981 27-04-1977
US 4092434	A	30-05-1978	JP 1292385 C JP 51061688 A JP 56046831 B CA 1065268 A1 GB 1503760 A	16-12-1985 28-05-1976 05-11-1981 30-10-1979 15-03-1978
DE 4244596	C	10-03-1994	DE 4244596 C1 AT 147778 T AU 697766 B2 AU 5813194 A BR 9307805 A CA 2153163 A1 CN 1095101 A ,B CZ 9501726 A3 DE 59305188 D1 DK 677097 T3 WO 9416054 A1 EP 0677097 A1 ES 2095805 A1	10-03-1994 15-02-1997 15-10-1998 15-08-1994 30-07-1996 21-07-1994 16-11-1994 17-01-1996 27-02-1997 03-02-1997 21-07-1994 18-10-1995 16-02-1997

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DK 03/00832

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 4244596	C	ES 2097026 T3	16-03-1997
		FI 953270 A	23-08-1995
		GR 3023111 T3	30-07-1997
		JP 8505057 T	04-06-1996
		PL 309663 A1	30-10-1995
		SK 85495 A3	08-05-1996
		US 5762991 A	09-06-1998
US 2343706	A	07-03-1944	NONE